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Title : MICROWAVE SWITCH HOUSING ASSEMBLY
TC./A.U. : 2817
Examiner : TAKAOKA, Dean O.
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PROPOSED EXAMINER'S AMENDMENT

Amendments to the Claims:

1. (currently amended): A microwave switch housing assembly for operation in a selected frequency range, comprising:
 - (a) a housing;
 - (b) a rotor rotatably mounted within said housing;
 - (c) at least one waveguide passage in said rotor;
 - (d) said housing having ports formed therein so that in a first position of said rotor, said waveguide passage connects said ports and in a second position of said rotor, said waveguide passage is unconnected to said ports;
 - (e) a channel formed within one of said housing and said rotor such that said channel is positioned adjacent to one end of said waveguide passage when said rotor is in said second position;
 - (f) a power absorbing element positioned and secured within said channel, a side of said power absorbing element being aligned with one of the inner radius of the housing and the outer radius of the rotor, said power absorbing element being capable of absorbing electromagnetic energy in said frequency range, so as to reduce the tendency of said waveguide

passage to act as a volume resonator when said rotor is in said second position.

2. (previously amended): The microwave switch housing assembly of claim 1, wherein said housing has an interior opening to accommodate said rotor, said opening having a cylindrical surface, said cylindrical surface having said a channel therein.

3. (original): The microwave switch housing assembly of claim 2, wherein said waveguide passage has an end opening having a selected height and width, and said channel has substantially the same height and width as said selected height and width.

4. (previously amended): The microwave switch housing assembly of claim 2, wherein said waveguide passage has two end openings, and wherein said power absorbing element is positioned in said housing adjacent to at least one of said end openings when said rotor is in said second position.

5. (previously amended): The microwave switch housing assembly of claim 2, wherein said channel has a cross-section selected from the group consisting of: rectangular, cylindrical, and triangular.

6. (previously amended): The microwave switch housing assembly of claim 2, wherein said power absorbing element has a cross-section selected from the group consisting of: rectangular, cylindrical, and triangular.

7. (previously amended): The microwave switch housing assembly of claim 1, wherein said rotor has a plurality of curved outer surfaces, at least one of said curved outer surfaces having said channel.

8. (original): The microwave switch housing assembly of claim 7, wherein said waveguide passage has an end opening having a selected height, and said channel has a height that is substantially the same height as said selected height.

9. (previously amended): The microwave switch housing assembly of claim 7, wherein said waveguide passage has two end openings, and wherein said power absorbing

element is positioned in said housing adjacent to at least one of said end openings when said rotor is in said second position.

10. (previously amended): The microwave switch housing assembly of claim 7, wherein said channel has a cross-section selected from the group consisting of: rectangular, cylindrical, and triangular.

11. (previously amended): The microwave switch housing assembly of claim 7, wherein said power absorbing element has a cross-section selected from the group consisting of: rectangular, cylindrical, and triangular.

12. (currently amended) A microwave switch housing assembly for operation in a selected frequency range, comprising:

- (a) a housing;
- (b) a rotor rotatably mounted within said housing;
- (c) at least one waveguide passage in said rotor;
- (d) said housing having ports formed therein so that in a first position of said rotor, said waveguide passage connects said ports and in a second position of said rotor, said waveguide passage is unconnected to said ports, said housing having a channel formed therein;
- (e) a power absorbing element positioned and secured within said channel, a side of said power absorbing element being aligned with one of the inner radius of the housing and the outer radius of the rotor, said power absorbing element being capable of absorbing electromagnetic energy in said frequency range, said power absorbing element and channel positioned adjacent to one end of said waveguide passage and aligned therewith when said rotor is in said second position, to change the boundary conditions for said waveguide passage in said second position so as to reduce the tendency of said waveguide passage to act as a volume resonator when said rotor is in said second position.

13. (previously presented): The microwave switch housing assembly of claim 12, wherein said housing has an interior opening to accommodate said rotor, said opening having a cylindrical surface, said cylindrical surface having said a channel.
14. (previously presented): The microwave switch housing assembly of claim 12, wherein said waveguide passage has an end opening having a selected height and width, and said channel has substantially the same height and width as said selected height and width.
15. (previously presented): The microwave switch housing assembly of claim 12, wherein said waveguide passage has two end openings, and wherein said power absorbing element is positioned in said housing adjacent to at least one of said end openings when said rotor is in said second position.
16. (previously presented): The microwave switch housing assembly of claim 12, wherein said channel has a cross-section selected from the group consisting of: rectangular, cylindrical, and triangular.
17. (previously presented): The microwave switch housing assembly of claim 12, wherein said power absorbing element has a cross-section selected from the group consisting of: rectangular, cylindrical, and triangular.